

IN THE CLAIMS

1-3. (canceled)

4. (previously presented) A huBUB3 fusion protein comprising a first protein segment and a second protein segment fused together by means of a peptide bond, wherein the first protein segment consists of a huBUB3 protein as shown in SEQ ID NO:2.

5-41. (canceled)

42. (previously presented) An isolated huBUB3 polypeptide comprising amino acids from about 1 to about 328 of SEQ ID NO:2.

43-48. (canceled)

49. (new) An isolated huBUB3 polypeptide comprising amino acids 1-328 of SEQ ID NO:2.

50. (new) An isolated double-stranded nucleic acid molecule which comprises SEQ ID NO:1.

51. (new) The nucleic acid molecule of claim 50 which is DNA.

52. (new) The nucleic acid molecule of claim 51 which is cDNA.

53. (new) An isolated RNA molecule transcribed from the nucleic acid molecule of claim 49.

54. (new) An antibody immunologically specific for the isolated protein of claim 42 or 49.